

SEMENKO, Yuriy Lukich; KOROLEV, A.A., kand. tekhn. nauk, retsenzent; BYKOV, V.A., inzh., retsenzent; SMIRNOV, V.V., kand. tekhn. nauk, dots., red.; GOLYATKINA, A.G., red. izd-va; KLEYNMAN, M.R., tekhn. red.

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[Machines for the straightening of rolled products] Mashiny dlia pravki prokata. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 207 p. (MIRA 14:11)

(Rolling mills-Equipment and supplies)

KHAN, G.A.; SMIRNOV, V.V.

Investigating the system of automatic control of a single-stage crushing cycle. TSvet. met. 34 no.6:1-9 Je '61.

(Crushing machinery)

(Automatic control)

5 MIRNOV, V.V.

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Rokotyan, Ye. S., Doctor of Technical Sciences, ed.

Prokatnoye proizvodstvo; spravochnik (Rolling Industry; Handbook) v. 1. Moseow, Motallurgizdat, 1962. 743 p. Errata slip inserted. 9250 copies printed.

Authors of this volume: B. S. Amarenko, Gandidate of Technical Sciences; V. D. Afanas'yev, Candidate of Technical Sciences; M. Ya. Browman, Engineer; M. P. Vavilov, Engineer; A. B. Vernik, Engineer; K. A. Golubkov, Engineer; S. I. Gubkin, Academician, Academy of Sciences BSSR; A. Ye. Gurovich, Engineer; V. I. Davydov, Candidate of Technical Sciences; V. G. Drond, Engineer; N. F. Davydov, Engineer; Yo. A. Zhukevich-Stopha, Engineer; N. M. Kirilin, Gandidate of Technical Sciences; M. V. Kovynov, Engineer; A. M. Koges, Engineer; A. A. Korolev, Professor; M. Yo. Kugsyenko, Engineer; A. V. Laskin, Engineer; B. A. Korolev, Professor; V. M. Lugevskoy, Engineer; I. M. Mayerovich, Gandidate of Lovitanskiy, Engineer; V. M. Lugevskoy, Engineer; V. I. Pasternak, Engineer; I. L. Technical Sciences; M. S. Ovcharov, Engineer; V. I. Pasternak, Engineer; I. L. Sciences; Ye. S. Rokotyan, Doctor of Technical Sciences; N. M. Saf'yan, Candidate of Technical Sciences; V. V. Smirnov, Candidate of Technical Sciences; V. V. Smirnov, Candidate of Technical Sciences; V. S. Smirnov, Corresponding Member, Academy of Sciences USSR; O. P. Sokolovskiy, V. S. Smirnov, Corresponding Member, Academy of Sciences USSR; O. P. Sokolovskiy,

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32

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Rolling Industry; Handbook

Engineer; O. P. Solov'yov, Engineer; M. A. Siderkevich, Engineer; Ye. M. Trat'yakov, Engineer; I. S. Trichovakiy, Gandidate of Technical Sciences; G. M. Trat'yakov, Engineer; and A. I. Tselikov, Corresponding Member, Academy of Sciences USSR. Introduction: A. I. Tselikov, Corresponding Member, Academy of Sciences USSR; Ye. S. Rokotyan, Doctor of Tachnical Sciences; and L. S. Al'shevskiy, Gandidate of Tachnical Sciences. didate of Technical Sciences.

Eds. of Publishing House: V. M. Gorobinchenko, R. M. Golubchik, and V. A. Rymov; Tech. Ed.: L. V. Dobuzhinskaya.

PURPOSE: This handbook is intended for technical personnel of metallurgical and machine-building plants, scientific research institutes, and planning and design organizations. It may also be useful to students at schools of higher education.

COVERAGE: The fundamentals of plastic deformation of motals are discussed along with the theory of rolling and drawing. Mothods of determining the power consumption and the forces in rolling with plane surface or grooved rolls are

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AUTHORS:

Khan, G.A., Smirnov, V.V., Zaznobin, M.G.

TITLE:

Method for the automatic turbidity control of decantation from co-

agulator (For discussion)

PERIODICAL: Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel naya

tekhnika, no. 3, 1963, 29, abstract 3A162 (Obogashcheniye rud, 1962,

no. 2 (38), 39 - 42)

The article cites dependence curves for the capacitance of the TEXT: transducer as a function of the turbidity of quartz of various sizes, of the turbidity of a suspension of various minerals, of the particle size at constant concentration, of the turbidity of decantation from coagulator under varying size of the solid phase (of a scheelite concentrate), and of the concentration of various reagents. A diagram and description is given of an electronic metering unit, as well as results of experiments, according to which the turbidity meter with capacitance transducer may be utilized in a system for automatic feeding of coagulating agents supplied to a coagulator, and for the control of the

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KHAN, G.A.; FED'KOVSKIY, I.A.; SMIRNOV, V.V.

Oxidizability of molybdenite during flotation. Izv. vys. ucheb.
zav.; tsvet. met. 5 no.4:54-59 '62. (MIRA 16:5)

KHAN, G.A.; GURAN, M.; BAULOV, V.I.; SMIRNOV, V.V.

Testing automatic photometric equipment for the continuous measurement of residual xanthate ion concentrations in flotation pulp. TSvet.met. 35 no.8:79-81 Ag '62. (MIRA 15:8) (Flotation—Equipment and supplies) (Photometers—Testing)

KALMAKOV, A. A.; POLKIN, S. I.; KHAN, G. A.; SMIRNOV, V. V.

The use of radioisotopes for the determination of the contents of certain metals in the Products of ore dressing.

paper to be presented at the Sixth International Mineral Processing Congress, Cannes, France, 26 May 2 Jun 63

RIMSKIY-KORSAKOV, A.A.; SMIRNOV, V.V.

Dependence of the angular distribution of photoelectrons on the y-radiation energy. Izv. AN SSSR. Ser. fiz. 26 no.9:1169-1171 (MIRA 15:9)

5 162.

(Photoelectricity) (Gamma-ray spectrometry)

Gerasimov, V. V.; Gromova, A. I.; Gelevina, YE. S.; Moskvichev, G. S.; Pavlova, F. S.; Sairmov, V. V.; Shapovalov, B. T. Corrosion and irradiation (Korroziya i oblucheniye), Moscow, Gosatomizdat, 1963, 267 p. illus., biblio. 3,000 copies printed. TOPIC TAGS: corrosion, irradiation, nuclear reactor, nuclear reactor material, motallurgy, stainless steel, chromium steel, carbon steel, low alloy steel, aluminum alloy, protective coating, electrochemical behavior PURPOSE AND COVERAGE: The basis of this monograph was the research conducted by the authors in recent years that has been published in the periodical literature and the work of Soviet and foreign authors on the problems of the corrosion resis- tance of structural materials. The monograph consists of ten chaptors in which corrosion and the protection of structural materials used in reactors, the inter- section of radiation of the nuclear reactor with a substance and the effect of radia- tion on the corrosion and electrochemical behavior of metals are examined. The general and systematized material on the corrosion resistance of metals used in reactors will be useful to a wide circle of designers, researchers, and engineers Cord 1/3	•	SMIRM			
Pavlova, F. S.; Smirmov, V. V.; Shapovalov, E. T. Corresion and irradiation (Korroziya i oblucheniye), Moscow, Gosatomisdat, 1963, 267 p. illus., biblio. 3,000 copies printed. TOPIC TAGS: corresion, irradiation, nuclear reactor, nuclear reactor material, metallurgy, stainless steel, chromium steel, carbon steel, low alloy steel, aluminum alloy, protective coating, electrochemical behavior PURPOSE AND COVERAGE: The basis of this monograph was the research conducted by the authors in recent years that has been published in the periodical literature and the work of Soviet and foreign authors on the problems of the corresion resistance of structural materials. The monograph consists of ten chapters in which corresion and the protection of structural materials used in reactors, the interaction of radiation of the nuclear reactor with a substance and the effect of radiation on the corresion and electrochemical behavior of metals are examined. The general and systematized material on the corresion resistance of metals used in reactors will be useful to a wide circle of designers, researchers, and engineers		am10365/16	BOOK EXPLOITATION	5/	
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JD/HW/WB/DJ [JP(c) ENT(m)/T/EWP(t)/ETI/EWP(k) SOURCE CODE: UR/0133/66/000/008/0752/0755 L 41073-66 AUTHOR: Doronin, V. M.; Smirnov, V. V.; Klyuyev, M. M.; Alekseyenko, M. F.; Orekhov, G. N. ORG: none TITIE: Stainless heat-resistant 15Kh16N2M steel SOURCE: Stal', no. 8, 1966, 752-755 TOPIC TAGS: Steel, martensitic steel, martensitic heat resistant steel, 50410 mechanical property, steel heat resistance, steel corres /15Khl6N2M stainless steel ABSTRACT: A new stainless and heat-resistant steel designated 15Khl6N2M has been developed for use in parts operating under stresses at elevated temperatures up to 500C in marine or tropical (atmospheres. (The steel is intended to replace previously used LKhllnvFRA, Khl7N2, and DI-1/steels. The two former (are heat resistant at temperatures up to 500-600C but are susceptible to corrosion in marine and tropical atmospheres. The latter two have a high corrosion resistance but are not suitable for operation at temperatures over 400C. In addition, Kh17N2 steel has a poor forgeability owing to a two-phase structure with a deltaferrite content of up to 40%. 15Kh 16N2M steel has none of the above disadvantages. It contains 0.12—0.18% carbon, 15.0—16.5% chromium, 2.0—2.5% nickel, 1.2—1.5% UDC: 669.14.018.45.8 Card 1/3

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ACC NR: AP6027299

molybdenum, and 0.005-0.12% nitrogen. Steel austenitized at 1040-1050C (optimum temperature) and oil quenched has a martensitic structure with 5-10% deltaferrite. The best combination of strength and ductility (for elevated temperature service) is achieved by tempering at 500-550C or 660-680C (see Fig. 1) At 500C, steel

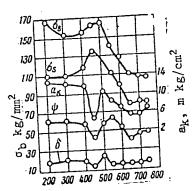
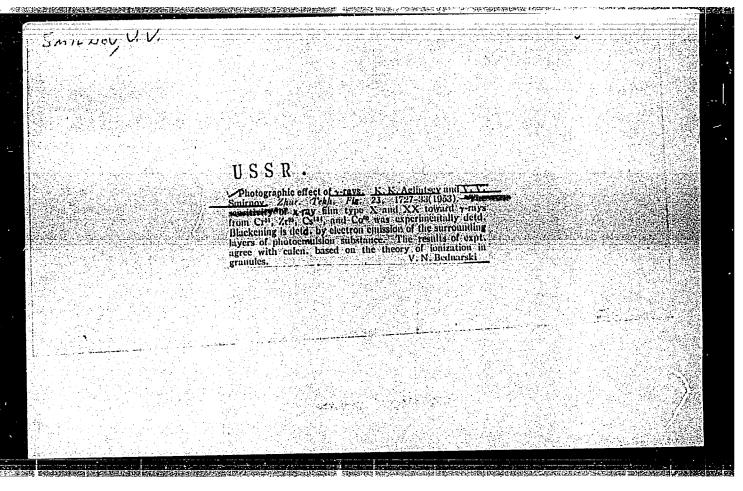


Fig. 1. Tempering temperature dependence of tensile strength (σ_b) , yield strength (σ_s) , elongation (δ) , reduction of area (ψ) , and notch toughness (a_k) of 15Kh16N2M steel, oil quenched from 1050C.

tempered at 5800 had a 100 hr rupture strength of 45 kg/mm^2 , a 500 hr rupture strength of 40 kg/mm², a creep strength of 27 kg/mm² (for 0.2% total creep in 100 hr), and a fatigue strength of 45 kg/mm² for smooth specimens and 26 kg/mm² for notched specimens. Conventionally arc-melted steel has a rather high anisotropy of

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"Investigations of Constioning electronic spectra to the Sesymetry of Bcold "Investigations," a paper submitted at the International Conference on Radioisotopes in Jointiffe Research, Paris, 5-20 Sep 57.

"On the Activating Action of Electron Spectra in Ionization Chambers," by K. K. Aglintsev, V. V. Mitrofanov and V. V. Smirnov, Atomnaya Energiya, Vol. 2, No 1, Jan 57, pp 66-68

The article analyzes the Bragg-Gray relation

 $Q = \Delta E / S \mathcal{E}$

where Q is the number of vaporized ions per cm³ of gas in an ionization chamber, ΔE is the amount of radiation absorbed per cm³ of the material in the walls of the chamber, s is the ratio of the stopping power of the wall material to that of the gas, and $\mathcal E$ is the work of ionization.

Conditions necessary in order that the relation may be applied withour error are enumerated.

An experiment is described in which electron spectra in ionization chambers and counters were systematically studied. A magnetic spectrometer was used to determine the spectra of electrons. The electrons were knocked out by x-rays at various angles to a target analogous to the ionization chamber walls. A graph shows the degree of ionization caused by electrons knocked out at various angles. (U)

SUM 1392

21(1) AUTHORS: Aglintsev, K. K., Mitrofanov, V. V., Smirnov, V. V.

sov/89-5-5-12/27

TITLE:

The Relative Effectiveness of Ionization Chambers Made of Various Materials (Otnositel'naya effektivnost: ionizatsionnykh

kamer iz razlichnykh materialov)

PERIODICAL:

Atomnaya energiya, 1958, Vol 5, Nr 5, pr 566-568 (USSR)

ABSTRACT:

The thimble-ionization chambers were made from plexiglass, aluminum, copper, cadmium, and lead. The angular distribution and the energy spectrum of the secondary electrons were experimentally determined. Secondary electrons are produced by the interaction between the γ -radiation of

 $_{\text{Cs}}^{137}$ (662 keV) and $_{\text{Co}}^{60}$ (1170 and 1330 keV) and the various materials of which the walls of the ionization chamber are made. The secondary electrons were measured by means of a 270 magnetic spectrometer (Ref !). An additional sluable device made it possible to carry out separate measurements of the secondary electrons emitted at angles of 0, 15, 30, 45, 60, 80, 105, 130, 150, 165 and 180.

Card 1/3

The relative effectiveness of the thimble-ionization chambers

SOV/89-5-5-12/27
The Relative Effectiveness of Ionization Chambers Made of Various Materials

was determined as amounting to:

E in keV	Material of the walls of the chamber	Relative effectiveness
1250	plexiglass Al Cu Cd Pb	$ \begin{array}{c} 1.0 \pm 0.1 \\ \underline{1.0} \\ 1.1 \pm 0.1 \\ 1.3 \pm 0.2 \\ 1.6 \pm 0.2 \end{array} $
662	plexiglass Al Cu Cd Pb	1,0 ± 0,1 1,0 1,5 ± 0,2 1,9 ± 0,3 2,7 ± 0,4

The values obtained, with the exception of those for Pb, agree well with the data supplied by reference 2. The effect of the ionization by electrons scattered on the opposite wall of the chamber is taken into account by the above data. There are 3 figures, 2 tables, and 2 references,

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21(1) AUTHOR:

Smirnov, V. V.

sov/89--5--5--13/27

TITLE:

The Absolute Effectiveness of Ionization Chambers for γ-Rays (Absolyutnaya effektivnost' ionizatsionnykh kamer dlya γ-luchey)

PERIODICAL:

Atomnaya energiya, 1958, Vol 5, Nr 5, pp 568-569 (USSR)

ABSTRACT:

Card 1/2

On the basis of the experimentally determined energy- and angular distribution of secondary electrons liberated from thick targets (Ref 3) by Co 00 γ -radiation, the absolute effectiveness of an ionization chamber of a certain type

is determined.

By comparing the surface of the total spectrum of secondary electrons with the area which corresponds to known β -spectra (at the same experimental conditions), the absolute number

of secondary electrons is obtained.

In a flat ionization chamber with an area of 100 ${\rm cm}^2$ and a

dopth of 0,1 mm in $(4.8 \pm 0.5).10^6$ ion pairs are produced

per cm3 and second.

This value agrees very well with a value calculated from the

ratio between the dose in r and the number of γ -quanta

sov/89-5-5-13/27

The Absolute Effectiveness of Ionization Chambers for Y-Rays

causing this dose.

This method can also be employed for larger chambers. In this way it might be possible to find out the maximum dimensions of chambers to which the Bragg-Gray (Bragg-Gray) law is applicable. There are 2 figures and 4 references, 2 of which

are Soviet.

SUBMITTED:

July 16, 1958

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CIA-RDP86-00513R001651610020-9 "APPROVED FOR RELEASE: 08/24/2000

SMIRNOV, V.V.

sov/89-5-5-14/27

21(1) AUTHOR:

Smirnov, V. V.

TITLE:

Spectra of Secondary Electrons and the Sensitivity of Counting Tubes With Respect to Y-Rays (Spektry vtorichnykh elektronov

i chuvstvitel 'ncst' schetchikov k γ-lucham)

PERIODICAL:

Atomnaya energiya, 1958, Vol 5, Mr 5, pp 57c-572 (USSR)

ABSTRACT:

The γ -rays emitted by Cs^{137} and Co^{60} impinge upon an aluminum semicylinder which is used as a counting tube and has a diameter of 20 mm and a wall-thickness of 1 mm. The spectrum of secondary electrons produced is measured by means of a magnetic spectrometer (Ref 1) for each of the angles of 0,15, 30, 60, 80, 105, 130, 150 and 165 a spectrum recording was made vertical and parallel to the aluminum cylinder. The angular - and energy distribution of the secondary elec-

trons is given in form of a graph.

The relative effectiveness of the aluminum counting tube for Co 60 and Cs 12 ? γ -radiation was determined as amounting to 2,1 + 0,2. This result agrees well with the data supplied

Card 1/2

The absolute effectiveness of the aluminum counting tube was

SOV/89-5-5-14/27

Spectra of Secondary Electrons and the Sensitivity of Counting Tubes With Respect to γ -Rays

determined by comparing the surfaces of known β -spectra with those of the measured secondary electrons. The following values were obtained:

$\mathbf{E}_{\mathbf{y}}$ in keV	Absolute effectiveness
1250	(8 <u>+</u> 2) . 10 ⁻³
662	$(4 \div 1) \cdot 10^{-3}$

These values agree well with the data supplied by reference 3. K. K. Aglintsev displayed constant interest in this work. V. V. Mitrofanov took part in experiments. There are 4 figures: 1 table, and 3 references: 2 of which are Soviet.

SUBMITTED:

July 16, 1958

Card 2/2

9(6) AUTHORS: Krasheninnikov, I. I., Smirnov, V. V., SOV/119-58-12-12/13

Engineers

TITLE:

Pulse Counter Relay of the Type Ye-531

(Schetno-impul'snoye rele tipa Ye-531)

PERIODICAL:

Priborostroyeniye, 1958, Nr 12, pp 30 - 30 (USSR)

ABSTRACT:

This relay of the type Ye-531 has been developed in the Kiyevskiy zavod rele i avtomatiki (Kiyev Relay and Automation Works). It automatically counts the number of processes of a mechanism and, after counting to a certain predetermined number, it gives an order to the power element to initiate the next process cycle. The relay is quoted to have a life time of at least 5 million pulses and is provided to be fed by a.c. The magnets, however, are fed by d.c. through a rectifier (germanium diode) from an a.c. source, which is incorporated in the device. The device itself is mounted on a plastics ground plate. The case is in front fitted with a window, thus providing for a simple adjustment, which can be varied between 1 and 75 pulses. The relay operates only at a pulse repetition frequency less than 4 per second. If an extension

Card 1/2

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SHIRMOV, V.V., Cond. Physo-Math Sci -- (diss) "Secondary electrons and the effectiveness of recording of general-radiation." Len), 1959.

11 pp (Acad of Sci USSR. Radium Inst im V.G. Mhlopin). 175 coples (YL,40-59, 101)

ACLINTSEV, K.K.; MITROFANOV, V.V.; SMIRNOV, V.V.

Active electron spectra in air-equivalent ionization chambers. Trudy Radiev.inst.AN SSSR 9:253-257 159.

(MIRA 14:6)

(Ionization chambers)

(Electrons—Spectra)

69069

S/120/60/000/01/004/051 vEQ32/E314 21.5300

Mitrofanov, V.V. and Smirnov, AUTHORS:

The Construction of a Magnetic Spectrometer for Studying

Angular Distribution of Electrons TITLE:

Pribory i tekhnika eksperimenta, 1960, Nr 1, PERIODICAL:

pp 22 - 24 (USSR)

The spectrometer has been designed for use in studies involving energy spectra and angular distributions of ABSTRACT:

electrons having energies between 0.02 and a few MeV. The angular interval is $0 - 180^{\circ}$. The spectrometer

is based on the design reported by Dzhelepov et al (Ref 1). Electrons of given energy emitted in a direction

perpendicular to the source are doubly focused by a uniform magnetic field and are recorded by two counters

in coincidence. By varying the magnetic field and noting the number of coincidence, it is possible to obtain the energy spectrum of the electrons emitted by the source in the forward direction. By rotating the source of electrons through an angle about the vertical axis, it is possible

to analyse those electrons which correspond to the rotation angle. The authors have studied the energy spectra and

Card1/4

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The Construction of a Magnetic Spectrometer for Studying Angular Distribution of Electrons

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angular distributions of secondary electrons ejected by Cs and Co gamma-rays from thick targets of different atomic number. Moreover, a study was made of the electron spectra of W^{185} , Y^{91} and P^{32} scattered in backward directions at various angles to the targets. Figure 1 gives a schematic drawing of the apparatus employed. In Figure 1, 1 is the target; 2 is the body of the spectrometer; 3 is a collimator; 4 is the gamma-ray source; 5 is the counter-holder; 6 is the counter chamber; 7 is a slit-carrying frame; 8 is the moveable jaw of the exit slit; 9 and 10 is the device for adjusting the slit width; 11 is a diaphragm; 12 is a screening block; 15 is the lid; 14 is a connection to the vacuum pump; 15 is the electron counter; 16 is the counter chamber; 17 is a pipe used to evacuate the counter chamber; 18 are glass-metal seals; 19 is the entrance slit; 20 and 21 is a device for rotating the target; 22 is a window for changing the targets.

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The Construction of a Magnetic Spectrometer for Studying Angular

Distribution of Electrons

The chamber is so constructed that the electron spectra can be obtained in steps of 15° between o and 180°.

The overall dimensions of the spectrometer are

The overall dimension of the counters were cylindrical 410 x 370 x 110 mm³. The counters were cylindrical (12 mm diameter, working length 35 mm) and were filled with a mixture of argon and methane (60% and 40%, respectively, at a total pressure of 10 cm Hg). Resolution of the coincidence circuit was 10 sec. Figure 2 shows the spectra of electrons ejected by Cs¹³⁷ gamma-rays from cadmium. The vertical axis gives the number of pulses in arbitrary units and the horizontal axis the electron energy in KeV. Figure 3 gives the spectra emitted by Co gamma-rays from the same target. Acknowledgment is made to K.K. Aglintsey

who directed this work.

Card3/4

69069

S/120/60/000/01/004/051

The Construction of a Magnetic Spectrometer for Studying Angular Distribution of Electrons

There are 3 figures, 1 table and 4 Soviet references.

ASSOCIATION: Radiyevyy institut AN SSSR (Radium Institute of the Ac.Sc., USSR)

SUBMITTED: January 14, 1959

Card 4/4

S/115/60/000/05/24/034 B007/B011

AUTHOR:

Smirnov, V. V.

TITLE:

On the Measurement of the Dose of Gamma and Beta

Radiations With the Aid of Thimble Ionization Chambers

PERIODICAL:

Izmeritel'naya tekhnika, 1960, No. 5, pp. 47-50

TEXT: For a right interpretation of processes taking place in thimble chambers the author systematically examined the spectra and the angular distributions of secondary electrons released from the targets (simulating ionization chamber walls) by means of Cs 137 and Co gamma rays (Ref. 3). The investigation was conducted by means of a magnetic spectrometer in an angular range of from 0 to 180°. The targets used consisted of graphite, plexiglass, paluminum, copper, cadmium, and lead. The results are shown in the diagrams of Figs. 1, 2, 3, and 4. Fig. 5 shows the complete spectra, calculated from formula (2), of electrons released by means of Cs 137 and Co gamma rays from the plexiglass target. The relative change in the total number of secondary electrons released by means of

Card 1/3

On the Measurement of the Dose of Gamma and Beta Radiations With the Aid of Thimble Ionization Chambers

S/115/60/000/05/24/034 B007/B011

 $\text{C}_{\text{3}}^{-1/3} ?$ and C_{0}^{60} gamma rays as dependent on the atomic number of the target is shown in Fig. 6. On the strength of obtained spectra and angular distributions of secondary electrons, the author calculated the relative and absolute efficiencies of flat-slit ionization chambers of different materials (Refe. 4, 5). The values obtained fit experimental results published by various authors (Refs. 6, 7). It is pointed out that when measuring the gamma radiation dose, one must consider not only the ionization caused by the electrons released from the chamber walls by means of gamma rays, but the electrons scattered from the opposite walls as well. Experiments showed that such electrons constitute 5% in the case of 700 kev electrons. In order to determine the magnitude of ionization produced by secondary electrons in the chamber unit volume, one must know the volume of the entire space out of which the ions collect. The ionization volume of the chamber can be accurately determined by calibrating the chamber with a calibrated gamma radiation source. This procedure is described here as well. The author studied the change in the total number of secondary electrons and their ionization effect in dependence on the chamber wall thickness,

Card 2/3

On the Measurement of the Dose of Gamma and Beta Radiations With the Aid of Thichic Ionization Chambers

S/115/60/000/05/24/034 B007/B011

and shows the corresponding results in Fig. 7. If there is a thin front wall, the ascendary electrons released by the gamma rays from the source envelope and the air layer between source and chamber enter the ionization volume of the chamber. This leads to a certain indefiniteness in the material layer thickness which plays the part of the front wall in the chamber in the measurement of the gamma radiation dose. There are 7 figures and 6 references: 5 Soviet and 3 English.

Card 3/3

AGLINTSEV, K.K.; SMIRNOV, V.V.; CHUBAROV, M.N.

Investigating the sensitivity of "Roentgen-X" and "Roentgen-X" films to electrons. Zhur.nauch.i prikl.fot.i kin. 7 no.6:444-446 N-D '62. (MIRA 15:12)

1. Radiyevyy institut AN SSSR imeni V.G. Khlopina. (Radiography)
(Photographic sensitometry)

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651610020-9"

AGLINTSEV, K.K.; MITROFANOV, V.V.; RIMSKIY-KORSAKOV, A.A.;

SMIRNOV, V.V.

Luccation of the angular distribution of photoelectro

Investigation of the angular distribution of photoelectrons knocked out of Ag and Bi targets by gamma rays from Cs 137. knocke

(Electrons—Spectra) (Camma rays)

9.65

24 W30,

5/048/62/026/009/007/011 B125/B186

AUTHORS:

Rimskiy-Korsakov, A. A., and Smirnov, V. V.

TITLE:

Study of the dependence of the angular distribution of

photoelectrons on the x-radiation energy

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,

no. 9, 1962, 1169-1171

TEXT: Determinations were made of the angular distributions of K-photo-electrons knocked out from Ag. Nd, Bi, and U targets by Cs¹³⁷ y-radiation, from Bi and U targets by Au¹⁹⁸ (412 kev) and Co⁶⁰ (1331 kev) y-radiation (Fig. 1). From these, the dependence of the ratio I_0/I_{max} on the nuclear charge number Z of the target (Fig. 2) and on the energy of the incident y-quanta was derived. I_0 denotes the photoelectron intensity at $\theta = 0^{\circ}$ and I_{max} is the intensity at the angle with the maximum photoelectron intensity. The photoelectron scattering in the target itself was calculated by the Monte Carlo method. The spectrometers used were

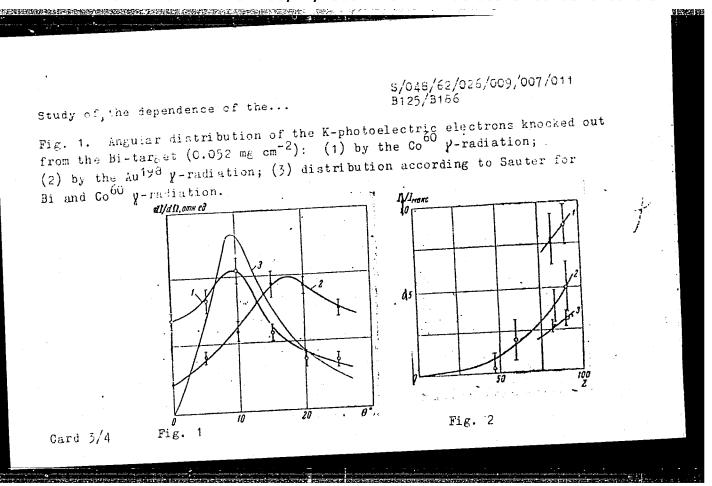
Card 1/4

5/048/62/026/009/007/011 B125/B186

Study of the dependence of the ...

described among others by K. K. Aglintsev et al. (Izv. AN SSSR, Ser. fiz., 25, 1141 (1961)). The substances to be studied were sputtered onto colloid or aluminum backings. The angular distributions of an electron beam scattered in Bi layers (0.1; 0.2; and 0.4 mgcm⁻² thick) calculated by the Monte Carlo method are given in Fig. 4. These calculations were based (1) where 0 is the deflection angle, on the formula cot $(\theta/2) = Mv^2p/Z!e^2$ M is the mass of the incident particle, vis its velocity, p is the collision parameter, e the electron charge; the Thomas-Fermi function ϕ (p) characterizes the weakening of the Coulomb interaction between nucleus and electron at a distance p from the nucleus owing to the screening of the nuclear field by the electrons. Z' = Z $\phi(p)$. The calculations give the quantitatively correct angular distribution and state the nature of its dependence on the nuclear charge number Z of the target nucleus and on the energy of the incident γ -quanta. The "anomalous" intensity I is due to the term which is proportional to $(\alpha Z)^3$. The increasing deviation from Sauter's explanation of the photoelectric effect with increasing energy of y-radiation is very interesting for the theory of the photoelectric effect. There are a figures.

Card 2/4



33996

S/056/62/042/001/010/048

24.6410 26.2541

AUTHORS:

Rimskiy-Korsakov, A. A., Smirnov, V. V.

TITLE -

Angular distribution of photoelectrons released by Cs $^{13.7}$ γ -rays from targets with various atomic numbers

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42,

no. 1, 1962, 67 - 68

TEXT: The angular distribution of photoelectrons knocked out of the K shell by Cs 137 γ -rays was investigated with a magnetic spectrometer (K. K. Aglintsev et al., Izv. AN SSSR, seriya fiz., 25, 1141, 1961). Thin targets and the good angular resolution of the apparatus made it possible targets and the angular distribution in the photoeffect. Fig. 2 shows the to obtain the angular distribution in the photoeffect. Fig. 2 shows the change of the ratio I_0/I_{max} (I_0 intensity at the angle $\theta=0$, I_{max} = maximum intensity corresponding to the angle $\theta=15^0$ for hu = 662 keV) with Z, Fig. 1 shows the angular distribution of K-photoelectrons released with Z, Fig. 1 shows the angular distribution of K-photoelectrons released from Md and U targets. The release of electrons at $\theta=0$ is the most from Md and U targets. The release of electrons at $\theta=0$ is the most interesting deviation from F. Sauter's results (Zs. Physik, 11, 454, 1931).

33996

S/056/62/042/001/010/048 B125/B108

Angular distribution of ...

According to the empirical relation $J_0/I_{max}=2.59\cdot 10^{-6}\cdot Z^{2\cdot 7}$ established by the authors, the intensity at $\theta=0^{\circ}$ is caused by that term in the expansion which is proportional to $(\alpha Z)^{\circ}$. This is of interest for the theory of the photoeffect and will have to be studied quantitatively. Professor K. K. Aglintsev is thanked for his interest, M. N. Chubarov for assistance. There are 2 figures and 8 references: 3 Soviet and 5 non-Soviet. The two references to English-language publications read as follows: A. Hedgran, S. Hultberg. Phys. Rev., 14, 498, 1954; S. Hultberg. Ark. Physik, 15, 307, 1959.

ASSOCIATION: Radiyevy; institut Akademii nauk SSSR (Radium Institute of

the Academy of Sciences USSR)

SUBMITTED: July 28, 1961

Fig. 1. Angular distribution of photoelectrons released by Cs 137 $\gamma\text{-rays}$ (h ν = 662 keV) from an Nd target (•) and a U target (-) with a surface density of 0.05 and 0.04 mg/cm², respectively. Solid line = Sauter curve. Legend: (1) dI/d Ω in conventional units; (2) 0, degrees.

Card 2/5]

02103-67 EWT(d)/FSS-2 GD
AT6022318 SOURCE CODE: UR/0000/66/000/00022/0025 67-
AUTHOR: Katayev, S. I.; Makoveyev, V. G.; Smirnov, V. V.; Dymnich, E. V.; Avanesov, G. A.
ORG: None
TITLE: Experimental converter of television signal standards (
SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio, 22d, 1966. Sektsiya televideniya. Moscow, 1966, 22-25
TOPIC TAGS: signal to noise ratio, TV converter, TV equipment, TV system, vidicon tube, video signal
ABSTRACT: The authors discuss the various problems involved in exchange of television programs due to the existence of four incompatible television signal standards. A brief description is given of an experimental converter developed by the television department of the Moscow Electrotechnical Institute of Communications in 1964-1965. This device converts a television signal from a system with a line frequency of 625 per second at 50 frames per second to a signal with 525 lines per second at 60 frames per second and vice versa. The basic unit in the converter is a device for rephotographing the image containing an optically interconnected kinescope and transmitting tube which operate in different scanning systems.
rd 1/2
Card 2/2
No. 2 The same of the first transfer of the

SOURCE CODE: UR/0413/66/000/021/0076/0076 ACC NR: AP7001400 INVENTOR: Smirnov, V. V.; Fomin, Yu. V.; Sud'in, A. P.; Merzenev, M. D. ORG: none TITLE: Arc welding attachment. Class 21, No. 187905 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 76 TOPIC TAGS: arc welding, arc length, automatic arc length control, welding ABSTRACT: This Author Certificate introduces an attachment for arc welding which includes a welding head and a copying device. To ensure a stable arc length and to improve the welding quality, the welding head carries an additional argon nozzle and is connected to a membrane actuator. The argon jet from the additional nozzle Fig. 1. Welding attachment 1 - Membrane actuator; 2 - welding torch; 3 - nozzle; 4 - argon jet. UDC: 621.791.753.39.03 Card 1/2

SMIRNOV, V.V., podpolkovnik med.sluzhby.

Effect of hyperventilation and red light on night vision.

Veen.-med.zhur. nc.12:56-58 D '55 (MIRA 12:1)
(NIGHT VISION)
(RESPIRATION)

SMIRNOV, V. V. (Capt.Med.Serv.) and GORELOV, V. V. (Lt.Col.Med.Serv.)

"Some of the Reasons for Flight Accidents Due to Health Condition," Voyenno-medits. zhur., No.4, pp. 52-55, 1957

Summary of article 1119950

AZIZYAN, A.K., otv. za vypusk; REUT, V.F., otv. za vypusk; SELYUK, S.I., otv. za vypusk; SMIRNOV, V.F., otv. za vypusk; NOVIKOVA, L., tekhn.red.

[The first flight of man into space; materials published in "Pravda."] Pervyi polet cheloveka v kosmos; materialy, opublikovannye v "Pravde." Moskva, Izd-vo "Pravda," 1961, 343 p. (MIRA 14:3)

(Astronautics)

CIA-RDP86-00513R001651610020-9 "APPROVED FOR RELEASE: 08/24/2000 THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

AZIZYAN, A.K., otv. za vypusk; REUT, V.F., otv. za vypusk; SMIRNOV, V.V., otv. za vypusk; NOVIKOVA, L., tekhn. red. [Twenty five hours of space flight] 25 chasov v kosmicheskom polete; materialy, opublikovannye v "Pravde." Moskva, Izd-vo "Pravda," 1961.

(MIRA 14:10)

(Astronautics)

382 p.

CIA-RDP86-00513R001651610020-9" APPROVED FOR RELEASE: 08/24/2000

IVAN'KOV, Ye.I., podpolkovnik meditsinskoy sluzhby; LYASAKOV, N.A., podpolkovnik meditsinskoy sluzhby; SMIRNOV, V.V., podpolkovnik meditsinskoy sluzhby

Causes for the elimination of students in military flight training institutions for health reasons, Voen.-med.zhur. no.3:57-60 Mr '61. (MIRA 14:7)

(AVIATION MEDICINE)

SHI.400, V.V., podpolkovnik meditsinskoy sluzhby; KONOBKITSKIY, I.S., kapitan meditsinskoy sluzhby.

Changes of ocular refraction after atropinization in flying school candidates. Voen.-med. zhur. no.8:65-66'62.(MIRA 16:9)

(EYF--ACCOMODATION AND REFRACTION)

(ATROPINE--PHYSIOLOGICAL AFFECT)

MESHKOVSKAYA, V.V.; SMIRNOV, V.Ya.; ANTIPOV, M.M.; TKHILADZE, G.R.

Mebile mechanized machine for preparing paint components. Rats. i izebr.
predl.v strei.me.123:6-9 155.

(Paint machinery)

SMIRNOV, V.Ya.; PERRPELKINA, M.S.; ANTOROV, M.M.; TKHILADZE, G.R.

Mebile all-purpose machine for parquet floor layers. Rats. 1 izebr.

Mebile all-purpose machine for parquet floor layers. (MIRA 9:7)

predl.v stroi. no.123;13-17

[Parquetry]

SMIRNOV, V.Ya.

Spring planting of trees and shrubbery on avenues and in parks of the capital. Gor.khoz.Mosk. 24 no.5:6-7 My '50.(NIEA 7:11)

1. Zamestitel' nachal'nika Upravleniya ozeleneniya gor. Moskvy. (Moscow--Tree planting) (Tree planting--Moscow)

SMIRCO, V. YA., LUNTO, L. B.

MCBCCW - LANDUCAPE CANDIMING

Results and perspectives of landscaping in Mosocw. Ger. khcz. Mosk., 26, nc. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, Cotober 1952. Unclassified.

SMIRNOV, V.Ya.

Economy of funds and tree materials in landscape architecture. Gor.

khoz.Mosk. 29 no.2:33-34 F 155.

 Zamestitel' nachal'nika Upravleniya ozeleneniya Moskvy. (Moscow--Tree planting)

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UTHOR: Mirgal	ovskaya, H. S.; Ko	okoshkin, V. A.	Smirnov, V. Ya	. ලුල් - 32
	face effect in do	1일 학생인 학교학교에 보면 다른 존	화 등 시간 시간 중요 하는 것이다.	B
OURCE: AN SSS o. 3, 1965, 34	R. Izvestiya. Ne 0-342	organicheskiye	materialy, v. 1	•
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ntimonide sing	face effect R in t le crystals doped order to establis	with sulfur. se	lenium, or zinc	han
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a impurity. T	he crystals were g	rown by the Cad	chraleki technic	is or .
rd 1 B 2		당시 찾았다. 하면, 오. 1985 유슈		

L 44133-65 ACCESSION MR: AP5011928

under standard conditions. The average carrier (impurity) concentrations "beyond the face," (N_b), as determined from the experimental Hall constant at liquid nitrogen temperature, were in the (1-4) x 10¹⁷ cm range for Se and S and in the (0.9-3) x 10¹⁹ cm⁻³ range for Zn. The Ka: Kb ratio was assumed to be equal to the (N_a:N_b)_a ratio, where N_a and N_b are the carrier concentrations "at" and "beyond the face" of preferential growth, and a is thermoelectric power. The a values were measured by means of hot probe equidistant points along the diameters of polished cross sections cut from a single crystal. Thus, the ratios a_b: a_a were established and (N_a: N_b)_a ratios, i.e., R, were calculated on the basis of the a(n) dependence established by calibration. The experimental (N_a: N_b)a data were found to be in good agreement with the previously published data for R(111). It was shown that: 1) R for a given impurity varied significantly along the entire length of the crystal as the average impurity concentration N_b increased or decreased even slightly; and 2) for impurities with K_b(111) <1 (S,Se) R decreased and for impurities with K_b(111) >1 (Zn) R remained nearly constant with increasing N_b within the concentration ranges indicated. Orig. art. has: 1 figure and 1 table. [JK]

Card 2/3 Submitted Josept 64

SMIRNOV, V. Ye.

"The Natural Restoration and Planting of Pine under a Protective Canopy of Red 'Shelyuga' in the Strip Forests of Altay Kray."

Min Higher Education USSR. Voronezh Forestry Engineering Inst. SMIRNOV, V. Ye.: Voronezh, 1956. (Dissertation for the Degree of Candidate in Agricultural Science)

So: Knizhnaya Letopis', No. 19, 1956.

SMIRNEY, V. YE.

κ.

USSR/Forestry - Forest Cultures.

Abs Jour

: Ref Zhur - Biol., No 21, 1958, 95843

Author

: Smirnov, V.Ye.

Inst

: West Siberian Affiliate AS USSR

Title

: Raising Siberian Larch in the Steppe Area of Altayekiy

Kray.

Oric Pub

: Tr. po lesn. kh-vu Zap. Sibiri, Zap.-Sib. fil, AN SSSR,

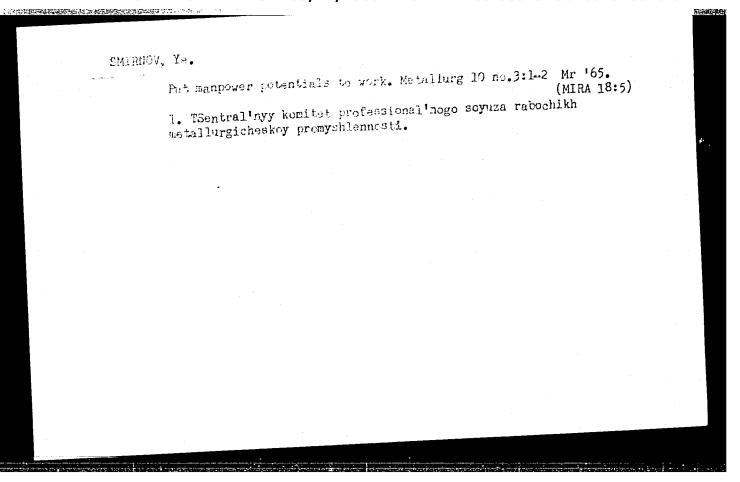
1957, vyp. 3, 223-230.

Abstract

: In the shelterbelts of the forest-steppe and steppe re-Cions of Altayskiy Kray, on leached grey forest soils, and southern and average clayey and sandy chermozens, the Siberian larch is a promising species. The Altay and especially the Khakasskaya forms in the existing experimental plantings grow well here and have been preser-

ved; in the 15-17 year plantings, the larch has a

Card 1/2



Effect of pneumoencephalography on the functional state of the arteries and veins. Vop. klin. pat. no.3:107-114 '61.(Kiik 14:12)

1. Iz Kliniki nervnykh bolezney (zavedwyushchiy prof. N.A.Popova) Moskovskogo oblastnogo mauchno-issledovatel'skogo instituta imeni M.V.Vladimirksogo.

(BLOOD VESSELS) (ENCEPHALOGNAPHY)

CIA-RDP86-00513R001651610020-9 "APPROVED FOR RELEASE: 08/24/2000

Smirnou, V. YE. USSR/Medicine - Pharmacology FD-1917

Pub. 38-16/18

Author

Title

Section of Pharmacology and Toxicology, Leningrad Society of Physiologists

Biochemists, and Pharmacologists imeni I. M. Sechenov [Meeting]

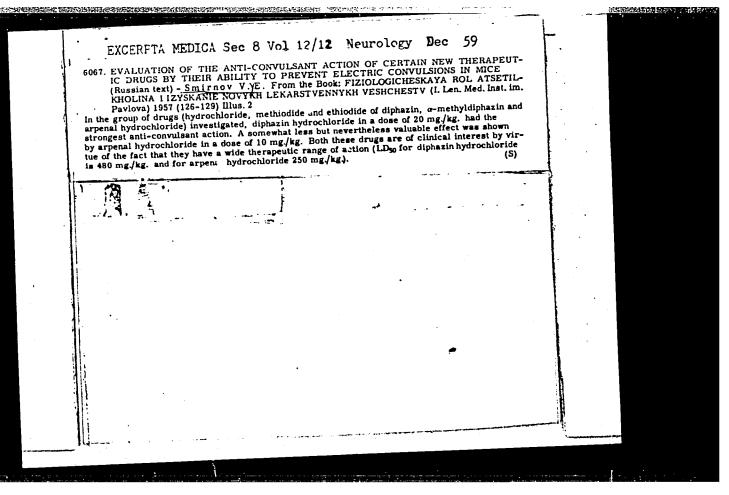
Periodical:

Farm. i. toks., 17, 57-58, Nov/Dec 1954

Abstract

: The 534th meeting of the society took place on October 27, 1953. Three papers were presented. Ye. S. Fedorchuk (Chair of Pharmacology Leningrad State Sanitation-Hygiene Institute) presented a paper "The Participation of Reflex Mechanisms in the Pressor Action of Nicotine". P. Ye. Dyablova (Chair of Pharmacology Leningrad State Pediatric Medical Institute) presented a paper "Preventing the Antidiuretic Effect of Histamine with Dimedrol". L. I. Tank (Division of Pharmacology, Institute of Experimental Medicine) presented a paper "The Endurance of Experimental Animals to the Poisons of Glycolytic Phosphorylation of Various Periods of Postnatal Development." The 539th meeting of the society took place November 26, 1953, and three papers were presented.

I. I. Baryshnikov presented a paper "Concerning the Effect of Certain Phenylalkylamines on the Central Nervous System". V. Ye. Smirnov (First Leningrad Medical Institute) presented a paper "Judging the Anticonvulsive activity of a number of preparations by Their Ability to Prevent Convulsions due to Electric Shock in Mice".



Introductions for the sorgidal treatment of some unination disorders to come builds excults. Vot. noisekhir. no.535 *64. (MIRA 18-10)

1. Illnike fabulitatekov khirurgii (asv. - prof. I.T. Khozhainov)

itzvrovoliskogo meditainskogo institutu.

Makesupov, G.A.; Januarov, V.Yo.

Review of scientific studies in 1564 on the problem "Besic discuss of the nervous system." Zhur. nevr. i psikh. 65 (MIRA 18:11) no.11:1753-1757 '65.

Surgical twincique in thratrical spendage of the pyloris caused ty a desiral bure. Entropica to no.2:62.60 Mr 164. (MERA 17:9) to Kinika familitetakey animingia (zev... prof. I.I. Khozhainov) travropoliskogo meditetakego identituta.

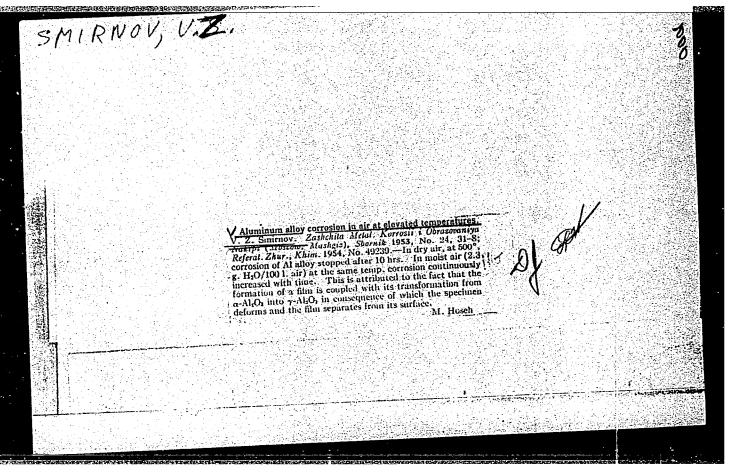
SMIRNOV, V.Ye.

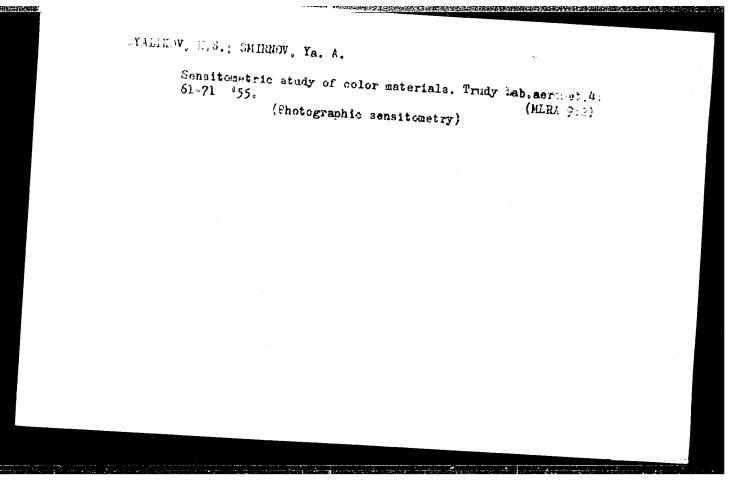
Indications for operative treatment of urinary incontinence in the presence of spinae bifidae occultae. Uch. zap. Stavr. gos. med. inst. 12:247-248 '63. (MIRA 17:9)

1. Klinika fakul'tetskov khirurgii (zav. prof. 1.1. Khozhainov) Stavropol'skogo gosudarstvennogo meditsinskogo instituta.

SMIRNOV, V. Ye., Candidate Med Sci (diss) -- "Changes in the intramural nervous apparatus of the vermiform process in various forms of acute appendicitis".

Ryazan', 1959. 16 pp (Ryazan' Med Inst im Acad I. P. pavlov), 200 copies (KL, No 22, 1959, 122)





L 05344-67 EVT(1) GW

ACC NR. AP7000246

SOURCE CODE: UR/0020/66/168/002/0428/0431

AUTHOR: Smirnov, Ya. B.

ORG: Geological Institute, AN SSSR (Geologicheskiy institut AN SSSR)

TITLE: Heat flux on the ocean floor

SOURCE: AN SSSR. Doklady, v. 168, no. 2, 1966, 428-431

TOPIC TAGS: tectonics, seismic wave, magnetic anomaly, earth crust, earthquake

ABSTRACT: The author reviews the data in the literature on the floors of water bodies in different tectonic zones. Data are given for the following: ocean floor (pre-Paleozoic), ocean floor (pre-Cenozoic), deep depressions of Cenozoic geosynclinal systems, ocean trenches, mid-ocean ridges, sloping parts of ridges, volcanic ridges, arched uplifts and block ranges, zones of faults, submarine parts of continental pre-Cenozoic platforms, submarine parts of Cenozoic geosynclinal systems. The mean values of the heat fluxes correlate with gravity and magnetic anomalies, velocities of seismic waves, general gradients of Late Cenozoic tectonic movements, bottom relief, zones of seismic activity and volcanism, as established for definite tectonic regions of ocean floors. Among the clearest examples are trenches and mid-oceanic ridges with low and high heat flux values respectively. The first are characterized by negative gravity anomalies and gradients of tectonic movements, intermediate and deep-focus earthquakes and virtual absence of volcanism. The feecond have positive anomalies of these characteristics, shallow "volcanic" UDC: 550.36+551.24+551.462

L 05344-67 ACC NR: AP7000246 earthquakes and basaltic volcanism. It is shown that the mean values of heat fluxes are related closely to the characteristics of composition and structure of the earth's crust and upper mantle in different tectonic regions and the deep the earth's crust and upper mantle in them. This paper was presented by Academician								
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2) Age of tectogenesis; 3) Precambrian; 4) Paleozoic; 5) Mesozoic; 6) Cenozoic; 7) Number of observations; 8) Value of heat flux in µcal/cm²·sec; 9) Distribution law; 10) Normal; 11) Not established. N = total; n = analyzed.

These data indicate that the heat flux \overline{q}_1 in regions with different age of tectogenesis is different. It was possible to determine the area s_1 of each of the considered regions. The region of Precambrian folding on the continents constitutes 64.2% of the total area S of the continents, Paleozoic -- 14.7%, Mesozoic -- 7.5% and Genozoic -- 13.6%. Those data make it possible to compute the mean weighted value of the heat flux on the continents \overline{q} from the relation

$$\bar{q} = (\sum_{i=1}^{n} \bar{q}_{i} s_{i})/S = 1.15 \pm 0.115 \ \mu \ cal/cm^{2} \cdot sec.$$

The total heat loss through the continents ($S = 1.48 \cdot 10^{18} \text{cm}^2$) is equal to

Q = 1.70·10¹² cal/sec = 7.11·10¹⁹ ergs/sec. This paper was presented by Academician A. L. Yanshin on 4 February 1966. Orig. art. has: 3 figures and 1 table. [JPRS: 37,710]

SUB CODE: 08 / SUBM DATE: 05Nov65 / ORIG REF: 007 / OTH REF: 013

Card 2/2 nst

Economic aspects of the ferced operation of tunnel kilns.
Stek.i ker. 17 no.5:9-13 Mg '60. (MIRA 13:8)
(Kilns) (Pottery)

Commander is training. Av.i kosm. 45 no.8:41-43 '62.

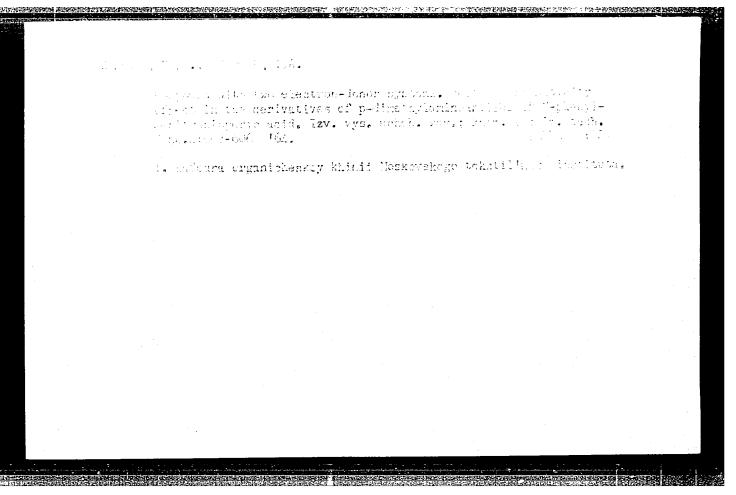
(MIRA 15:8)

(Flight training) (Aeronautics, Military)

SMIRHOV, Ye., kand. tekhn. nauk

Extend the overall mechanization of loading and unloading operations. (MIPA 18:5) Rech. transp. 24 no.4:9-11 165.

1. TSentral'nyy nauchno-iseledovatel'skly institut ekonomiki i ekspluatatsii vodnogo transporta.



是这些一种的人,我们也是一个一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个

VGLODIN, N.V., dots., kand. voyennykh nauk polkovnik v otstavke; <u>SMIRNOV, Ye.A., red.</u>; BALASHOVA, M.V., red.-leksikograf; YAKOVLEVA, N.A., tekhn. red.

[English-Russian military engineering dictionary; some 33,000 words Anglo-russkii voenno-inzhenernyi slovar'. Okolo 33,000 terminov. Moskva, Voenizdat, 1962. 783 p. (MIRA 16:2) (English language-Dictionaries-Russian) (Military engineering-Dictionatries)

SERECULE, P.V., inzl.; GLEPEN, P.J., inzl.; SLEMOV, Ye.A., inzh.; GLESHT.C.,
L.A., inzl.

Electing precast reinforced concrete cooling towers. Mont. i spets.
(MINA 14:2)

(Cooling towers)

(Precast concrete construction)

Features of the course of staphylococcal infection in irradiated mice.
Arkh.pat. 21 no.6:35-39 '59. (MIRA 12:12)

1. Nauchnyy rukovoditel' prof. M.V. Svyatukhin.
(MICROCOCCAL INFECTIONS, exper.
eff. of x-rays in mice (Rus))
(ROENTEN RAYS, eff.
on micrococcal infect. in mice (Rus))

Healing of wounds of the skin and of the subcutaneous parmiculus in white rats exposed to total-body gamma-irradiation. Arkh.pat. (MIRA 13:12) 21 no.8:32-39 * 159. (GAMMA RYAS—PHYSIOLOGICAL EFFECT)

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SUDZILOVSKIY, G.A., dotsent, kand. filol. nauk, podpolkovnik zapasa; BARANOVA, A.V., polkovnik, red.; SMIRNOV, Ye.A., red.; SAVIN, B.V., red.-leksikograf; BERDNIKOVA, N.D., red.-leksikograf; BUKOVSKAYA, N.A., tekhn. red.

[Anglo-Russian dictionary on antiaircraft and antirocket defense] Anglo-russkii slovar' po protivovozdushnoi i protivoraketnoi oborone. Pod red.A.V.Baranova. Okolo 27 000 terminov i sochetanii. Moskva, Voen.izd-vo obor.SSSR, 1961. 720 p. (English language-Dictionaries-Russian)

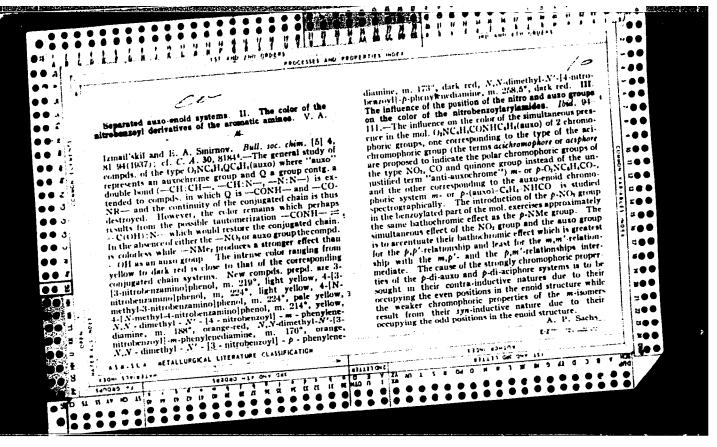
(Antiaircraft guns-Dictionaries) (Rockets (Ordnance)) -- Dictionaries)

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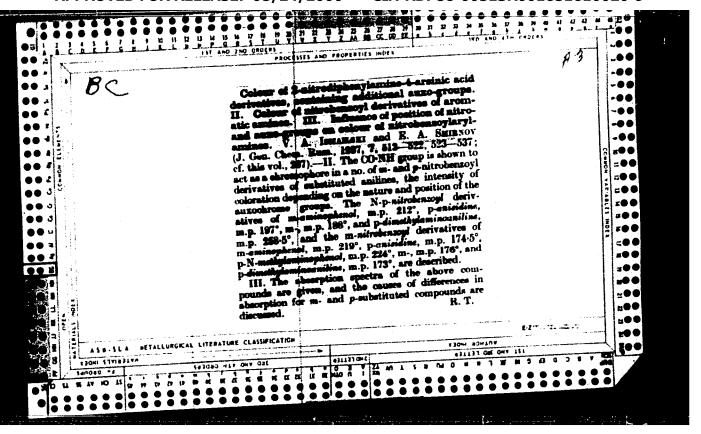
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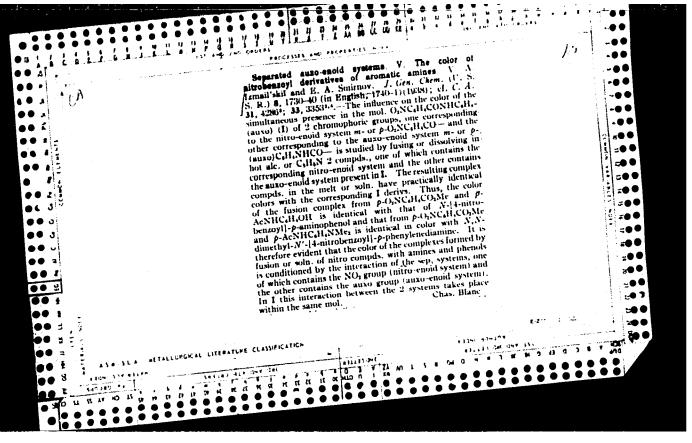
Vertical hoist of the Bratsk Hydroelectric Power Station. Energ. (MIRA 16:5) stroi. no.32:59 162.

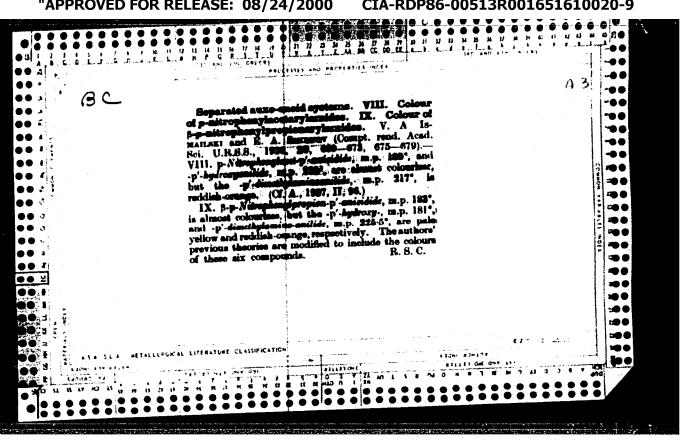
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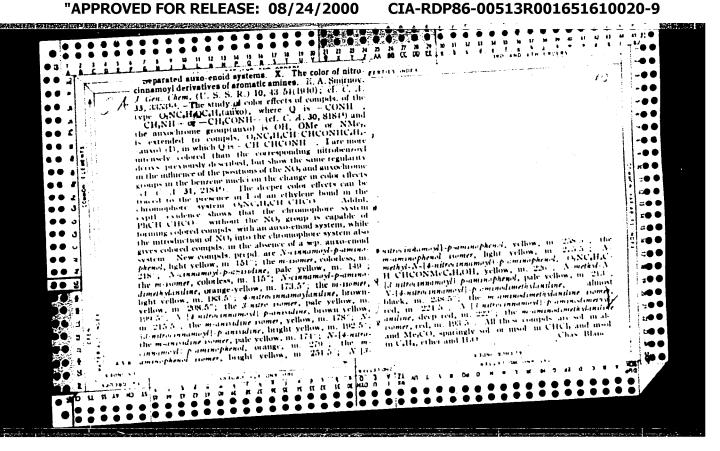


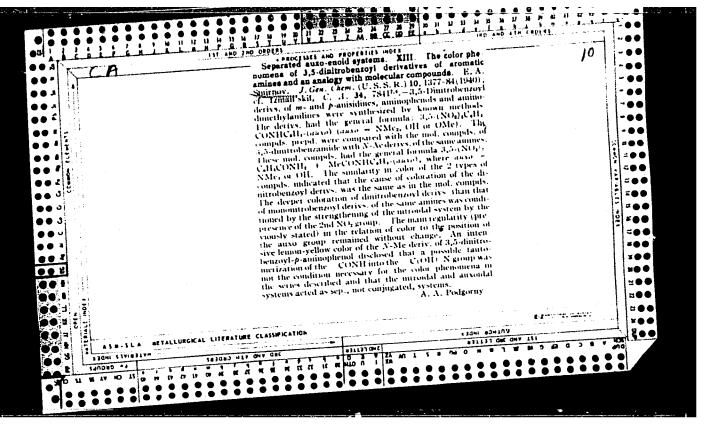


SMIRNOV, Ye. A.

"The Phenomena of Chromaticity on the Nitrocinname l Derivatives of Aromatic Amines" Part X. "Isolated Auxoenoid Systems" Zhur. Obshch. Khim., 10, No.1, 1940. Laboratory of organic chemistry of the Moscow State Pedegogical Institutue imeni K. Libknekht Rec'd 9 Aug. 1939.

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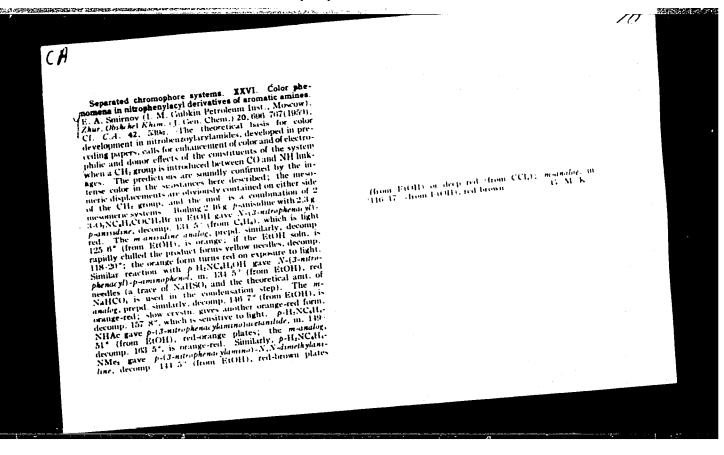


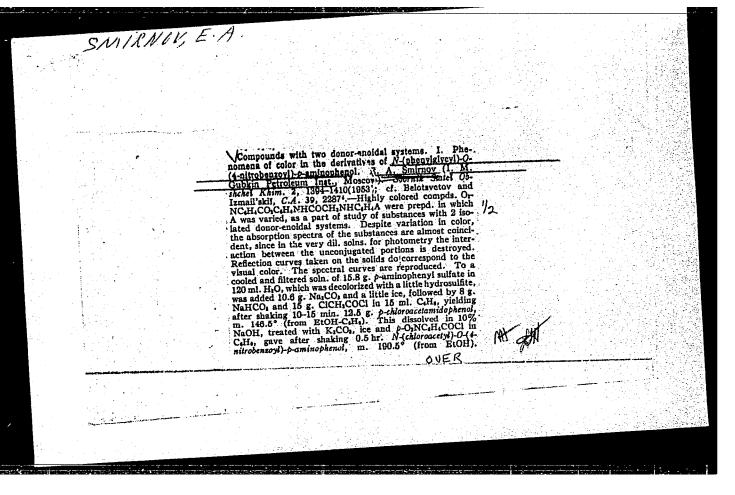


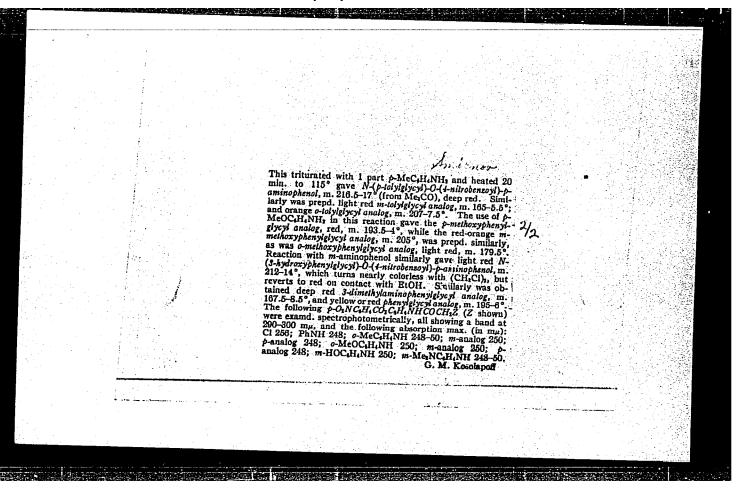
USSR/Chemistry - Acetic Acid, 2,4-Dinitrophenyl- Chemistry - Hydrocinnamic acid, 2,4-dinitro- Feb 1947		
"Separated Chromorphoric Systems," E. A. Smirnov, 11+ pp		
"Zhur Obshch Khim" Vol XVII, No 2		
Part 25 of this research, dealing with the color phenomena in arylamides of 2,4-dinitrophenylacetic and 2,4-dinitrohydrocinnamic acid.		
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Situry No.

Zadania I Owiczenia Z Chemii Organicznej (Assignments ani Exercises of Organic Chemistry, By) (Y. A. Izmail'skiy) (A. Simonov) (and) (Ye. Smirnov) Warszawa, Fanstwowe Wydawnictwo Naukowe, 1954.

Mac F. Illus., Tables.

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Translated From The Russian: Uprazhneniya Po Kursu Organicheskoy Khimii.

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